1	CONSUMABLE PRODUCTS PRODUCED BY	616	Heat exchange with liquid cryogen
3.1	USING ELECTRICAL OR MAGNETIC	617	.Separation of gas mixture
	EFFECT	618	Natural gas
3.2	.Thermoelectric; e.g., peltier effect	619	Compression, expansion, and condensation
3.3	Heat pump, selective heating	620	Distillation
3.3	and cooling	621	Flowline expansion engine
3.4	Including dehumidifying and	622	Downstream of column
J. 1	condensate handling	623	External refrigeration
3.5	Made with flexible heat		circuit
3.3	exchanger material; e.g.,	624	Membrane
	blanket, wearing apparel, etc.	625	Liquid contact
3.6	Interior of enclosure cooled;	626	Solid sorption
	e.g., refrigerator	627	Dephlemation
3.61	Having vehicle feature; e.g.,	628	Automatic control
	cooling cart, car, truck,	629	Solidification
	boat, etc.	630	Plural columns
3.62	Portable, having transporting	631	Recycle
	feature; e.g., handle	632	Liquid contact
3.63	Icemaker	633	Dehydrating
3.64	Beverage dispenser	634	Expansion
3.7	Including specific circuitry or	635	Plural contact columns
	heat exchanger material	636	Sorption
4	CHEMICAL REACTION OR SOLIDS	637	Solidification
	DISSOLVING	638	Regenerating heat exchanger
5	VORTEX TUBE, E.G., RANQUE	639	Helium
6	GAS COMPRESSION, HEAT	640	Air
	REGENERATION AND EXPANSION,	641	Regenerating heat exchanger
	E.G., STIRLING CYCLE	642	Filtration
7	UTILIZING FUEL AS REFRIGERANT	643	Distillation
600	CRYOGENIC TREATMENT OF GAS OR GAS	644	Upstream operation
	MIXTURE	645	Flowline expansion engine
601	.Solidification	646	Spaced initial charging
602	Carbon dioxide	647	Spaced initial charging
603	Snow	648	Downstream operation
604	Pressed block	649	Flowline expansion engine
605	Extruded pellets	650	High pressure nitrogen
606	.Liquefaction	651	Low pressure nitrogen
607	Hydrogen	652	Oxygen
608	Helium	653	Flowline pump
51.2	Utilizing Joule-Thomson effect	654	Liquid oxygen
610	He3/He4 dilution refrigerator	655	Membrane
	(i.e., superfluid)	656	Automatic control
611	Natural gas	657	.Automatic control
612	Multicomponent cascade	45.1	STORAGE OF SOLIDIFIED OR
	refrigeration	· <del>-</del>	LIQUIFIED GAS (E.G., CRYOGEN)
613	Compression, expansion, and	46.1	.With sorbing or mixing
	condensation	46.2	Mixing of substance with
614	Heat exchange with liquid		hydrogen
	cryogen	46.3	Sorbing into capillary material
615	Air		

47.1	.With conservation of cryogen by reduction of vapor to liquid	536	Refrigerant remains liquid during cooling
	within storage receptacle	537	Utilizing a constituent of the
48.1	.With vapor discharged from storage receptacle		original mixture or solution as refrigerant
48.2	And subsequently restored to receptacle as liquid	538	Solidifying or purifying in a pulsed column or using sonic
48.3	And subsequently used to cool		vibration
	receptacle	539	With control of pulsed column
48.4	Discharge caused by ignition of		process parameter
	combustible gas	540	With measured parameter
49.1	.With measuring		responsive control
49.2	Of liquid level	541	With separated constituent
50.1	.Liquified gas transferred as		recycle
3312	liquid	542	Using melted solid to wash
50.2	With vaporizing of liquified	0 12	solidified constituent
30.2	gas downstream of storage	543	With squeezing or compression
50.3	Energy converted to work	313	of solidified component
50.5	(e.g., used to drive prime	544	With stirring, agitating or
	mover)	511	scraping of the solidification
50.4	•		zone
50.4	Operates valve which controls	545	With externally scraped drum
50.5	flow of liquid	343	or helix or screw
	In phase separator	59	.Accumulating holdover ice in
50.6	Specific pump structure	39	situ
50.7	Specific conduit, valve, or	60	
F1 1	coupling structure		.Packaging
51.1	.Including cryostat	61	.Utilizing motion of vehicle
52.1	.Spraying of cryogen	62	.Treating an article
53.1	.Underground or underwater storage	63	Moving through cooling zone during cooling
53.2	.Storage in modified vehicle	64	By contacting with liquid
	(e.g., ship, truck, etc.)	65	Diverse sequential
54.1	.Cryogen stored in both phases		temperatures, e.g., precooling
	(e.g., as slush or gel)	66	.Congealing flowable material,
54.2	.Controlled conversion of		e.g., ice making
	solidified gas to another phase	67	With filtering or gravitational separating
54.3	.Storing solidified gas	68	Agitating
55.5	LOW PRESSURE COLD TRAP PROCESS	69	Introducing gas, e.g., air
	AND APPARATUS	70	By injecting
56	PROCESSES	71	Removing product from
57	.Suspending in upwardly directed		congealing surface
	current	72	Flexing supporting surface
532	.Fractionally solidifying a	73	By heating
	constituent and separating the	74	Spraying or dripping
	same	75	Sequential stages, e.g.,
533	Including direct contact with		composite block making
	added refrigerant	76	.With preliminary refrigerant
534	Liquid refrigerant converted		manufacturing
	to vapor phase during cooling	77	.Assembling, charging, or
535	Spent refrigerant vapor used		repairing of refrigeration
	in direct contact to melt		producer
	solidified component or heat	78	.Deodorizing, antisepticizing or
	product liquid		providing special atmosphere

79	.Exchanging heat between plural	110	With diffusion of refrigerant
	systems, e.g., disparate		into inert gas
80	.Defrosting or frost inhibiting	111	With forced circulation
81	By utilizing working fluid of		between evaporator and sorber
	refrigeration producer	112	Utilizing particular
82	By utilizing fluid strange to		refrigerant and/or sorbent
02	system		materials
83	-	113	.Transferring heat between
0.3	.Preventing slugging to	113	diverse function portions of
0.4	compressor		
84	.Lubricant handling	114	refrigeration cycle
85	.Separating or preventing	114	.Employing diverse materials or
	formation of undesirables		particular material in
86	.Reducing pressure on compressed		refrigeration circuit
	gas	115	.Compressing, condensing and
87	Converting energy of expansion		evaporating
	to mechanical movement	116	Utilizing motive energy of
88	With reheat of gas stream		fluid to compress
89	.Circulating external gas	117	Dividing refrigerant flow,
90			e.g., bypass parallel units
	With reheating	118	.Pumping fluid in closed circuit
91	With adding of moisture	119	.Condensing and evaporating
92	With removing of moisture	120	
93	With removing of moisture		.Spaced cooling steps
94	By sorption	121	.Gas and liquid contact
95	Plural cooling, e.g.,	122	.Combining fluids having diverse
	precooling by exhaust		temperatures
96	Indirect cooling using closed	123	SEPARATOR FOR SOLIDIFIED
	circuit heat transfer fluid		CONSTITUENT OF LIQUID MIXTURE
		124	
9./	Combining streams having	124	.With heater for liquid mixture
97	Combining streams having	124	.With heater for liquid mixture container
	diverse temperatures	124	
98	diverse temperatures .Fluid external of refrigeration	125	container WITH INDICATOR OR TESTER
98	diverse temperatures .Fluid external of refrigeration producing cycle		container WITH INDICATOR OR TESTER .Operatively correlated with
	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer	125 126	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control
98	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle	125	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or
98	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet	125 126 127	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers
98 99 100	diverse temperatures  Fluid external of refrigeration producing cycle  Indirect by using heat transfer fluid external of cycle  Vacuumizing an open outlet chamber	125 126	container WITH INDICATOR OR TESTER .Operatively correlated with   automatic control .Diverse function indicators or   testers .Atmospheric condensation
98 99 100 101	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet	125 126 127 128	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost
98 99 100	diverse temperatures  Fluid external of refrigeration producing cycle  Indirect by using heat transfer fluid external of cycle  Vacuumizing an open outlet chamber	125 126 127 128	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensing
98 99 100 101	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorption	125 126 127 128 129 130	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost
98 99 100 101 102	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerants	125 126 127 128	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensing
98 99 100 101 102	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of	125 126 127 128 129 130	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material
98 99 100 101 102 103	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or	125 126 127 128 129 130	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of
98 99 100 101 102 103	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or output	125 126 127 128 129 130 131	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element
98 99 100 101 102 103	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid	125 126 127 128 129 130 131	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL
98 99 100 101 102 103 104 105	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flow	125 126 127 128 129 130 131 132	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or traction
98 99 100 101 102 103	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of	125 126 127 128 129 130 131 132 133	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator
98 99 100 101 102 103 104 105	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycle	125 126 127 128 129 130 131 132	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product
98 99 100 101 102 103 104 105	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid	125 126 127 128 129 130 131 132 133	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product condition
98 99 100 101 102 103 104 105	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system	125 126 127 128 129 130 131 132 133	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g.,
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressure	125 126 127 128 129 130 131 132 133 134 135	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product condition .By change of consistency, e.g., viscosity or overrun
98 99 100 101 102 103 104 105	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant	125 126 127 128 129 130 131 132 133 134 135	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of product
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant transfer to evaporator against	125 126 127 128 129 130 131 132 133 134 135 136	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of productOn heat absorber
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant	125 126 127 128 129 130 131 132 133 134 135	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of productOn heat absorber .By accumulation on freezing
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant transfer to evaporator against	125 126 127 128 129 130 131 132 133 134 135 136	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of productOn heat absorber
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant transfer to evaporator against gravity	125 126 127 128 129 130 131 132 133 134 135 136	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of productOn heat absorber .By accumulation on freezing
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant transfer to evaporator against gravityCooling by evaporation of	125 126 127 128 129 130 131 132 133 134 135 136 137 138 139	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensing .External cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or traction .Electrical generator .By congealed removable product condition .By change of consistency, e.g., viscosity or overrun .By accumulation of productOn heat absorber .By accumulation on freezing surface, e.g., ice
98 99 100 101 102 103 104 105 106 107	diverse temperatures .Fluid external of refrigeration producing cycleIndirect by using heat transfer fluid external of cycle .Vacuumizing an open outlet chamber .Evaporation induced by sorptionUsing diverse refrigerantsWith modulated flow rate of fluidBy varying heat input or outputVarying non-refrigerant fluid flowIntermittent operating of generation and sorption cycleWith absorption liquid circulation aided by system generated pressureWith liquid refrigerant transfer to evaporator against gravityCooling by evaporation of refrigerant from sorption	125 126 127 128 129 130 131 132 133 134 135 136 137 138 139	container WITH INDICATOR OR TESTER .Operatively correlated with automatic control .Diverse function indicators or testers .Atmospheric condensation accumulation, e.g., frost .Condition sensingExternal cooled material .Position or extent of motion of movable element AUTOMATIC CONTROL .Responsive to vehicle body motion or tractionElectrical generator .By congealed removable product conditionBy change of consistency, e.g., viscosity or overrunBy accumulation of productOn heat absorber .By accumulation on freezing surface, e.g., iceBy frost, i.e., atmospheric

142	Discontinuous operation of	174	.Trapping and discharging
	refrigerant or sorbent	4	refrigerant batches
1 4 2	container unit	175	.Diverse, cascade or compound
143	Of intermittent generator- sorber unit	176.1	refrigeration-producing system
144		176.1	.Humidity sensor
144	Plural unit sequence or alternation	1/6.2	Having defrost control related to humidity
145	Serially connected type	176.3	Controlling variable compressor
146	Of cooling fluid		capacity
147	Including sorbent refrigerant flow	176.4	Controlling gas-liguid contactor for air
148	Of heating means	176.5	Control of air heater, e.g.,
149	.Withdrawing or adding		reheat pump
	refrigerant from or to	176.6	Plus air temperature sensor
	normally closed system		exerting a control
150	.Preventing, removing or handling	177	.Of external fluid or means
	atmospheric condensate	178	Diverse control or response
151	Defrosting	179	Plural external fluids or
152	Limited area, e.g., preferred		means controlled
	zone	180	External fluid and
153	By storage compartment closure		refrigeration producer
	actuated means	181	Condenser cooling fluid flow
154	By energy input actuated means	182	Sequential
155	Including time or program	183	Cooling fluid for heat
	actuator		rejecter, e.g., condenser
156	By temperature	184	By refrigerant
157	.Time or program actuator	185	Indirect heat transfer liquid,
158	Time delay of condition sensing		e.g., brine
	or control operation	186	Air controller or director
159	.Selective heating or cooling	187	Damper between storage
160	Reversible cycle machine	-	compartments
161	.With correlated manual or	188	By lever, e.g., float-
	external operator and		controlled valve
	condition sensing means, e.g.,	189	By fluid flow, e.g., check
	cutoff or reset		valve
162	Manual initiate with sensor	190	.Refrigeration producer
	terminate	191	Of or by jet-type compressor
163	Selective	192	Lubrication
164	Manual reset or sensor operates	193	Of or by compressor
	additional element	194	Lubricant aspirator in
165	.Solidified gas		evaporator liquid level
166	Diverse control or response		control chamber
167	Of heater, heat transmitter or	195	Impurity removal
	secondary fluid	196.1	Bypass, e.g., compressor
168	By temperature		unloading
169	.Vacuumized chamber with open	196.2	For plural compressor
	outlet		cylinders
170	Evacuating means, e.g., jet	196.3	Direct bypass of compressor
	pump	196.4	Condensor bypass
171	.Gas-liquid contact cooler, fluid	197	Of expansion zone
	flow	198	Of serially arranged
172	.Air compessor, cooler and		evaporator
	expander	199	Through an evaporator, i.e.,
173	.Of external fluid reheating		parallel

200	Individual flow controllers and sensors	228.4	By variable speed motor or pulley type mechanism
201	<pre>By external cooled liquid or holdover</pre>	228.5	By variable compressor output, e.g., unloading, staging, etc.
202	Including external thermal	229	By external cooled gas
	source modifying sensor action	230	By condition of power source
203	Plural refrigerating producing	231	TIME OR PROGRAM ACTUATOR
	elements and plural sensors	232	.Closed system sorbent type
204	Including expansion valve or	233	.Congelation product maker
	variable restrictor	234	.Defrosting
205	Plural variable restrictors	235	RINK
	in flow line	235.1	UTILIZING SOLAR ENERGY
206	High and low side	236	WITH ALTERNATELY USABLE ENERGY
207	Diverse function refrigeration		SOURCES
	elements controlled by single	237	SEPARABLE AMBULANT COOLED
208	sensorSingle refrigeration producer		ENCLOSURE AND POWER OR COOLING SOURCE
	controlled by plural sensors	238.1	DISPARATE APPARATUS UTILIZED AS
209	Compensating or modifying		HEAT SOURCE OR ABSORBER
210	Expansion valve or variable	238.2	.With vortex tube,
	restrictor		thermoelectric, Stirling or
211	External condition sensor		air cycle
212	Plural sensors at low side	238.3	.With sorption
213	Alternative or selective	238.4	.With power vapor generator
	sensors	238.5	.With distillation, ice maker, or
214	Single sensor mounted or formed		freeze separation
	to respond to plural	238.6	.With vapor compression system
		000 0	
	conditions, e.g., compensators	238.7	Reversible, i.e., heat pump
215	Controlling compressor or its	238.7	Reversible, i.e., heat pump WITH VEHICLE FEATURE
215			
215 216	Controlling compressor or its	239	WITH VEHICLE FEATURE .Ship
	Controlling compressor or its drive, e.g., torque or speed	239 240	WITH VEHICLE FEATURE
216	<ul><li>Controlling compressor or its drive, e.g., torque or speed</li><li>Of or by evaporation zone</li></ul>	239 240 241	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive
216	<ul><li>Controlling compressor or its drive, e.g., torque or speed</li><li>Of or by evaporation zone</li><li>Back flow or pressure</li></ul>	239 240 241 242	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicle
216 217	<ul><li>Controlling compressor or its drive, e.g., torque or speed</li><li>Of or by evaporation zone</li><li>Back flow or pressure regulator</li></ul>	239 240 241 242	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power
216 217	<ul><li>Controlling compressor or its drive, e.g., torque or speed</li><li>0f or by evaporation zone</li><li>Back flow or pressure regulator</li><li>Valve or restrictor by liquid</li></ul>	239 240 241 242 243	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply
216 217 218	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid lever	239 240 241 242 243	with Vehicle FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle
216 217 218 219	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side float	239 240 241 242 243 244 245	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control
216 217 218 219	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction	239 240 241 242 243 244 245 246	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicle .Axle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE
216 217 218 219 220	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float	239 240 241 242 243 244 245 246	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into
216 217 218 219 220 221	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable	239 240 241 242 243 244 245 246 247	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing
216 217 218 219 220 221 222	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictor	239 240 241 242 243 244 245 246 247	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent
216 217 218 219 220 221 222 223	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external condition	239 240 241 242 243 244 245 246 247	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel
216 217 218 219 220 221 222 223 224	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low side	239 240 241 242 243 244 245 246 247	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler
216 217 218 219 220 221 222 223 224	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator	239 240 241 242 243 244 245 246 247 248	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to
216 217 218 219 220 221 222 223 224 225	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator outlet, i.e., superheatCompressor or its drive controlled	239 240 241 242 243 244 245 246 247 248	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler .With material conveyer or transporter, e.g., for ice or goods
216 217 218 219 220 221 222 223 224 225 226	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator outlet, i.e., superheatCompressor or its drive	239 240 241 242 243 244 245 246 247 248 249 250	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler .With material conveyer or transporter, e.g., for ice or goods .Stepped, e.g., shelves
216 217 218 219 220 221 222 223 224 225 226	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator outlet, i.e., superheatCompressor or its drive controlledBy conducted evaporator	239 240 241 242 243 244 245 246 247 248 249 250	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler .With material conveyer or transporter, e.g., for ice or goods .Stepped, e.g., shelves .Plural storage compartments
216 217 218 219 220 221 222 223 224 225 226 227	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator outlet, i.e., superheatCompressor or its drive controlledBy conducted evaporator temperature	239 240 241 242 243 244 245 246 247 248 249 250	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler .With material conveyer or transporter, e.g., for ice or goods .Stepped, e.g., shelves .Plural storage compartmentsFormed by hollow imperforate
216 217 218 219 220 221 222 223 224 225 226 227	Controlling compressor or its drive, e.g., torque or speedOf or by evaporation zoneBack flow or pressure regulatorValve or restrictor by liquid leverLow side floatFloat chamber at suction lineValve isolated from float chamberOf expansion valve or variable restrictorBy external conditionBy condition at low sideAt or beyond evaporator outlet, i.e., superheatCompressor or its drive controlledBy conducted evaporator temperatureCompressor or its drive	239 240 241 242 243 244 245 246 247 248 249 250	WITH VEHICLE FEATURE .Ship .Utilizing motion of vehicleAxle drive .Vehicle contained common power supply .Occupant-type vehicle .Melt control DISPLAY TYPE .With means dispersing or evaporating liquid into atmosphere .Means removing or preventing condensate on transparent panel .With feature extraneous to cabinet or cooler .With material conveyer or transporter, e.g., for ice or goods .Stepped, e.g., shelves .Plural storage compartments

255			
233	.With air controlling or	281	.With porous or foraminous
	directing means		atmospheric condensate
256	Spaced elongated air inlet and		receiver
	outlet type, e.g., air curtain	282	.Means contacting heat absorber
257	.Bottom cooling means, e.g.,		with fluid strange to system
	cooled floor	283	.Moisture condensing means
258	WITH MEANS FORMING NON-COOLED		distinct from principal heat
250	WORK SURFACE, E.G., COUNTER,		absorber
	TABLE, SIDEBOARD	284	.Wiper or scraper
259.1	STRUCTURAL INSTALLATION	285	Retainer or flow director for
259.2	.With electrical component	203	atmospheric condensate
239.2	-	286	Adjustable position or
250 2	cooling	200	selectively usable
259.3	.With body applicator	287	<del>-</del>
259.4	.With evaporative type cooler	287	Wetted inner surface type
260	.Geographic, e.g., subterranean	000	refrigerator
	feature	288	With flow director directing
261	.Article of furniture, e.g., bed		condensate to retainer
	cover or canopy	289	Retainer exterior of
262	.Window connected or mounted		refrigerated space
263	.Vertical partition or wall	290	Plural distinct flow directors
	mounting feature		acting in parallel
264	WITH ILLUMINATING OR RADIANT	291	Condensate retainer
	ENERGY MEANS	292	WITH MEANS FOR CHARGING CLOSED
265	COMPARTMENT ACCESS OR USE AND AIR		REFRIGERATION PRODUCING SYSTEM
	BLOCKING	293	HAND MANIPULABLE TOOL
266	.Including article conveyer or	294	CONTAINER CUTTER OR PUNCH-TYPE
	transporter		OPENING MEANS
267	INTERLOCKED DIVERSE FUNCTION	295	RESILIENTLY SUPPORTED POWER AND/
	ELEMENTS		OR HEAT REJECTING ELEMENT
268	VACUUMIZED CHAMBER WITH OPEN	296	MUFFLER OR SOUND DAMPENER
268	VACUUMIZED CHAMBER WITH OPEN VAPOR OR GAS OUTLET	296 297	MUFFLER OR SOUND DAMPENER EXTERNAL SUPPORT FOR REFRIGERATOR
	VAPOR OR GAS OUTLET		
269	VAPOR OR GAS OUTLET .Including sorbent agent		EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING
	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating	297	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR
269 270	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means	297 298	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS
269	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING	<ul><li>297</li><li>298</li><li>299</li></ul>	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling
269 270 271	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE	297 298	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from
269 270	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING	297 298 299 300	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from support
269 270 271	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE	297 298 299 300 301	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means
269 270 271 272	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER	297 298 299 300	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide
269 270 271	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g.,	297 298 299 300 301 302	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means
269 270 271 272	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated	297 298 299 300 301 302 303	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS
269 270 271 272	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment	297 298 299 300 301 302	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING
269 270 271 272	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to	297 298 299 300 301 302 303 304	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR
269 270 271 272 273	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space	297 298 299 300 301 302 303	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of
269 270 271 272 273 274 275	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater	297 298 299 300 301 302 303 304 305	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer
269 270 271 272 273	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heaterHeating principal heat	297 298 299 300 301 302 303 304	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into
269 270 271 272 273 274 275 276	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heaterHeating principal heat absorber, e.g., evaporator	297 298 299 300 301 302 303 304 305 306	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver
269 270 271 272 273 274 275	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heaterHeating principal heat absorber, e.g., evaporator .Means utilizing heat developed	297 298 299 300 301 302 303 304 305 306 307	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inlet
269 270 271 272 273 274 275 276 277	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater .Heating principal heat absorber, e.g., evaporator .Means utilizing heat developed by refrigeration producer	297 298 299 300 301 302 303 304 305 306 307 308	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inletDrop tube type
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269 270 271 272 273 274 275 276 277 278	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater .Heating principal heat absorber, e.g., evaporator .Means utilizing heat developed by refrigeration producer	297 298 299 300 301 302 303 304 305 306 307 308	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inletDrop tube type
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269 270 271 272 273 274 275 276 277 278	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater .Heating principal heat absorber, e.g., evaporator .Means utilizing heat developed by refrigeration producer .Bypassing or reversing internal fluid flow	297 298 299 300 301 302 303 304 305 306 307 308 309	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inletDrop tube type .Gas recirculated relative to enclosure
269 270 271 272 273 274 275 276 277 278	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater .Heating principal heat absorber, e.g., evaporator .Means utilizing heat developed by refrigeration producer .Bypassing or reversing internal fluid flowMeans conducting atmospheric	297 298 299 300 301 302 303 304 305 306 307 308 309 310	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inletDrop tube type .Gas recirculated relative to enclosure .Fluid recirculating means
269 270 271 272 273 274 275 276 277 278 279	VAPOR OR GAS OUTLET .Including sorbent agent .System, i.e., multiple treating or fluid handling means ATMOSPHERE AND SORBENT CONTACTING TYPE WITH MEANS PREVENTING OR HANDLING ATMOSPHERIC CONDENSATE RELATIVE TO HEAT ABSORBER .Operating on insulation, e.g., vent to refrigerated compartment .With means to add moisture to cooled space .By external heater .Heating principal heat absorber, e.g., evaporator .Means utilizing heat developed by refrigeration producer .Bypassing or reversing internal fluid flow .Means conducting atmospheric condensate to heat rejecter	297 298 299 300 301 302 303 304 305 306 307 308 309 310 311	EXTERNAL SUPPORT FOR REFRIGERATOR HOUSING WITH REPAIR, ASSEMBLY OR DISASSEMBLY MEANS .Detachable valve and coupling .Means releasing mold from supportWith grid or cube release means .Sliding or rolling on guide means WITH CLEANING MEANS FOR APPARATUS MATERIAL COOLING MEANS INCLUDING GAS-LIQUID CONTACTOR .Cooling heat rejector of refrigeration producer .Means feeding gas into pressurized receiver .Submerged gas inletDrop tube type .Gas recirculated relative to enclosure .Fluid recirculating means .Diverse treating means

313	Elongated vertical passage for	336	MATERIAL HANDLERS OF DIVERSE
	melt and air		TYPES
314	.With gas forcing or directing	337	COOLED ARTICLE STORAGE
	means		COMPARTMENT AND COOLED
315	.Porous wall liquid container or		ISOLATED MATERIAL HANDLER
	flow line	338	Liquid container or flow line
316	.Porous cover member	330	within cooled enclosure
		220	
317	WITH SEPARATOR-CLARIFIER FOR	339	Including inlet flow line
	COOLED FLUID OR ICE-MELT		connection
318	.For liquid	340	MEANS PRODUCING SHAPED OR
319	Isolated from coolant		MODIFIED CONGEALED PRODUCT
320	WITH COMMINUTOR OR CUTTER	341	.With article press means
321	.Including means utilizing	342	.With means for working
	product		congealing material, e.g.,
322	DISPARATE SERIALLY ARRANGED		beater
222		343	Diverse blades
202 1	PRODUCT TREATING APPARATUS	344	
323.1	WITH INTERNAL-COMBUSTION ENGINE	344	.With product receiving and
323.2	.With cooling apparatus other		storing means
	than gas compressor	345	.Freezing surface mounted for
323.3	.With electrical motor drive		movement during freezing
323.4	.With clutch or variable speed	346	Drum
	transmission controlling	347	.With raw material projector,
	compressor drive		e.g., spray
324.1	REVERSIBLE, I.E., HEAT PUMP	348	.With means to precool or
		310	recirculate raw material
324.2	.With cooling apparatus other	349	
	than gas compressor		.Thawing means
324.3	.With product treatment	350	Attached to hand-manipulable
324.4	.With refrigerant collection and		mold
	intermittent discharge	351	Electrical heater
324.5	.With atmospheric condensate	352	Means using refrigerant or
	removal or prevention		coolant as heating fluid
324.6	.With flow control or compressor	353	.Heat absorber with product
321.0	details		remover
325	.External fluid flow reversed	354	Moving scraper
326	CONVERTIBLE	356	.Mold with means to absorb heat,
327	.Storable or variable capacity		e.g., brine tank
	ice bunker	371	PORTABLE, COMMODITY-CONTAINING
328	Bunker wall movable to chamber	372	.Mutually supported commodity and
	wall		solid coolant
329	.Movable partition within cooled	373	LIQUID CONTACTING DISCRETE
	compartment		COMMODITY
330	WITH REFRIGERANT OR COOLANT	374	.With article conveyer or
330		371	transporter
221	MANUFACTURING MEANS	275	_
331	COMBINED	375	With liquid recirculating means
332	DIVERSE SYSTEMS, E.G., ICE AND	376	.With liquid recirculating means
	MECHANICAL	377	ARTICLE HOLDER MOUNTED ON DOOR OR
333	.Primary and secondary dependent		PIVOTED PARTITION
	circuits	378	ARTICLE MOVING MEANS
334	Secondary evaporator contacting	379	.Solid refrigerant
	inner liner, e.g., two zone	380	.Continuous longitudinal-type
	cold wall	500	conveyor
225		381	-
335	PLURAL PAIRED DIFFERENT FUNCTION	201	.Rotary about fixed axis, e.g.,
	REFRIGERATION PRODUCING		rotary shelf or scraper
	ELEMENTS, E.G., CASCADE	382	.Drawer, tray or track-guided
			type; horizontally movable

383	MOVABLE THERMAL MEANS VARYING	411	With additional means causing
303	HEAT TRANSMISSION	111	flow, e.g., blower
384	COOLER UTILIZING SOLIDIFIED GAS	412	Inlet and outlet ports
385	.Sublimed gas entering insulation or within hollow wall	413	Means verging gas streams within storage space
386	.Means cooling withdrawable	414	Gas flow forcing means
	liquid	415	Space cooler units in separate
387	.External as circulator or	4.7.	streams
200	director	416	Above storage space and
388	.Means dispersing sublimed gas	41.0	adjacent opposed walls
200	into cooled enclosure	417	With imperforate partition
389	WITHDRAWABLE LIQUID, E.G., DISPENSER	418	forming storage compartments
390	.With plural liquid outlets or	410	Foraminous gas distributor flow connected to cooler unit
390	sources, e.g., distributing	419	Gas forcing means
	system	420	Directed relative to ice
391	.With withdrawn liquid receiver	420	container
392	.With agitator for withdrawable	421	Foraminous wall or bottom ice
392	liquid	421	container
393	.With intermediate indirect heat	422	Melt collector over storage
	transfer fluid container or		space
	conductor	423	Storage space along
394	.Refrigerant evaporator		container side
	surrounding or within a container	424	Gas flow passage means under ice container
395	Between cooled liquid container	425	.Gas flow through ice compartment
206	and insulation	-	contacting ice
396	.In indirect heat exchanging relationship to coolant	426	.Gas forcing means, e.g., cooler unit
397	Barometric feed-type liquid	427	Plural gas inlets, e.g.,
	container		recirculated and fresh air
398	Cooled liquid container supporting ice	428	Means directing gas over heat rejector
399	Helical or spiral coil	429	Unitarily driven plural
400	Ice holder and cooled liquid	127	blowers
	container concentrically	430	INTERMEDIATE FLUID CONTAINER
	nested	130	TRANSFERRING HEAT TO HEAT
401	AIR COMPRESSOR, COOLER AND		ABSORBER OR HOLDOVER
	EXPANDER TYPE	431	.Side-by-side or superimposed
402	.Motor-type expander		cooled compartments
403	Reciprocating element-type	432	Different temperature
	motor, e.g., piston		arrangements
404	GAS CONTROLLER OR DIRECTOR	433	With top access to each
405	.Isolated gas compartment, e.g., cold air jacket		compartment, e.g., ice cream
406	.Gas passage over or through	434	cans .Flow line connected transfer
100	indirect heat-transfer	434	fluid supply and heat
407	container or holdover .Cooled gas directed relative to	435	exchanger
<del>1</del> 0 /	cooled gas directed relative to cooled enclosure	433	.With indirect fluid pump or agitator
408	With adjustable gas flow	436	.Connected distinct sections for
	controller		indirect fluid
409	For exterior port	437	.Non-liquid heat accumulator
410	Exterior port, i.e.,	438	.Forming cooled storage
	ventilating		compartment

439	.Unitary jacket surrounding	467	REFRIGERATION PRODUCER
	coolant line	468	.With lubricant handling means
440	COOLED ENCLOSURE	469	Of unitary motor-compressor in
441	.Plural cooled compartments		casing
442	Coolers in parallel for plural	470	Lubricant separator
	compartments	471	At evaporator or evaporator-
443	Cooler integral with or forming		discharge line
	dividing wall	472	With lubricant heating means
444	Exterior wall	473	At condenser or receiver
445	With non-dividing cooler	474	.With refrigerant treater
446	Forms plural sides of a	475	Means for discharging impurity
	storage compartment		from system
447	Insulating dividing wall	476	.Sorbent type
448	.Movable unit of refrigeration	477	Absorber-still, e.g.,
	producing assembly		intermittent
449	Unit includes movable wall	478	Evaporator-condenser unit
	section, e.g., door	479	With means returning sorbent
450	Unit includes condenser fan		from evaporator
451	.Flowing coolant container	480	With solid sorbent
	covered by insulation means or	481	With sorber-generator cooling
	within hollow wall of		means
	enclosure	482	Internal liquid flow to
452	.With heat rejecting element		external cooler
	enclosure or cooling feature	483	Pump means forcing gas or vapor
453	Heat rejector contacting		relative to sorber
	enclosure wall	484	Vapor-liquid contact in
454	With ventilation means therefor		reabsorber forming liquid
455	Forced circulation		refrigerant
456	Vertical flue venting bottom	485	Means causing cooling fluid
	compartment		contact with sorber and/or
457.1	.Portable receptacle		condenser
457.2	With holdover material	486	Means cooling liquid
457.3	Drinking container		refrigerant flow line to
457.4	For beverage receptacle		evaporator
457.5	For multiple receptacles	487	Internally generated pressure
457.6	Cooled serving dish		or capillary means moving
457.7	Picnic/lunch box type cooler	400	sorption liquor
457.8	Wine server/cooler	488	Transfer vessel, e.g., liquid
457.9	Cooled by means other than ice	400	trap
	(e.g., mechanical, electrical,	489	Means attempering flow line
	absorption, cryogenic, etc.)	400	between sorber and generator
458	.Access surface open to	490	Inert gas
	atmosphere	491	Gas-liquid contactor within
459	.Ice support, e.g., container	400	inert gas circuit
460	Flowing ice melt heat exchanger	492	In evaporator
4.5.1	within cooled enclosure	493	Means cooling inert gas flow
461	Lateral ice melt distributor	494	line from sorber to evaporator
462	Valve or trap within ice melt	474	Particular gas-liquid contact in sorber
162	flow line	495	
463	Partially surrounding storage	コノン	Sorbent vapor separator between generator and condenser
161	compartment	496	Submerged gas-liquid contact
464 465	Top access to ice compartment	コノロ	means
465	.With particular internal element	497	With means to enhance
166	support	101	separations in generator
466	Resilient		Separacions in generator

498	.Compressor-condenser-evaporator	CROSS-R	EFERENCE ART COLLECTIONS
499	Unitarily movable connected	<u> </u>	
	units	900	TRIPLE COLUMN
500	Jet powered by circuit fluid	901	SINGLE COLUMN
501	External fluid actuates	902	APPARATUS
	compressor and exchanges heat	903	.Heat exchange structure
502	Diverse fluids	904	Coiled heat exchanger
503	With liquid trap or disperser	905	.Column
	in suction line	906	Packing
504	Means to apportion refrigerant	907	Insulation
	to evaporator	908	.Filter or absorber
505	Cooling motor and/or compressor	909	.Regeneration
	by refrigerant	910	.Expander
506	External cooling fluid contacts	911	.Portable
	heat rejector	912	EXTERNAL REFRIGERATION SYSTEM
507	Air cooled	913	.Liquified gas
508	Motor-compressor in common	914	MAGNETIC OR ELECTRIC FIELD
	housing	915	COMBUSTION
509	Condensed liquid receiver,	916	EXPLOSION REDUCTION
	e.g., surge tank	917	MERCURY
510	Plural compressors or multiple	918	HALOCARBON
	effect compression	919	ISOTOPE
511	Fixed restrictor	920	CARBON MONOXIDE
512	.Distinct vapor liquid separator	921	CHLORINE
	and separated liquid recycle	922	SULFUR
513	.Heat exchange between diverse	923	INERT GAS
	function elements	924	.Argon
515	.Evaporator, e.g., heat exchanger	925	.Xenon or krypton
516	Enclosure forming	926	GASOLINE
517	With closure	927	NATURAL GAS FROM NITROGEN
518	Surrounds inner container	928	RECOVERY OF CARBON DIOXIDE
519	Plural distinct sections or	929	.From natural gas
	diverse zones	930	.From nitrogen
520	Shelf is evaporator	931	RECOVERY OF HYDROGEN
521	Shelf, shelf or receptacle	932	.From natural gas
	support	933	.From helium
522	Integral or attached shelf	934	.From nitrogen
523	Corrugated or embossed wall	935	OLEFIN
524	Plural distinct sections	936	ERICKSON
525	With particular flow	937	CHENG
	distributor to sections	938	MEHRA
526	Serially connected	939	PARTIAL FEED STREAM EXPANSION
527	Flow controller or boiling	7 0 7	(AIR)
	expeditor	940	.High pressure column
528	Adjustable controller		
529	REFRIGERANT OR COOLANT, STORER OR HANDLER		
530	.Envelope type		
531	MISCELLANEOUS	<u>FOREIGN</u>	ART COLLECTIONS
		FOR	CLASS-RELATED FOREIGN DOCUMENTS

December 2000

## DIGESTS

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DIG 2	REFRIGERANT PUMPS
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